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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10826 (1984): Pad Saw [PGD 6: Earth, Metal And Wood Working Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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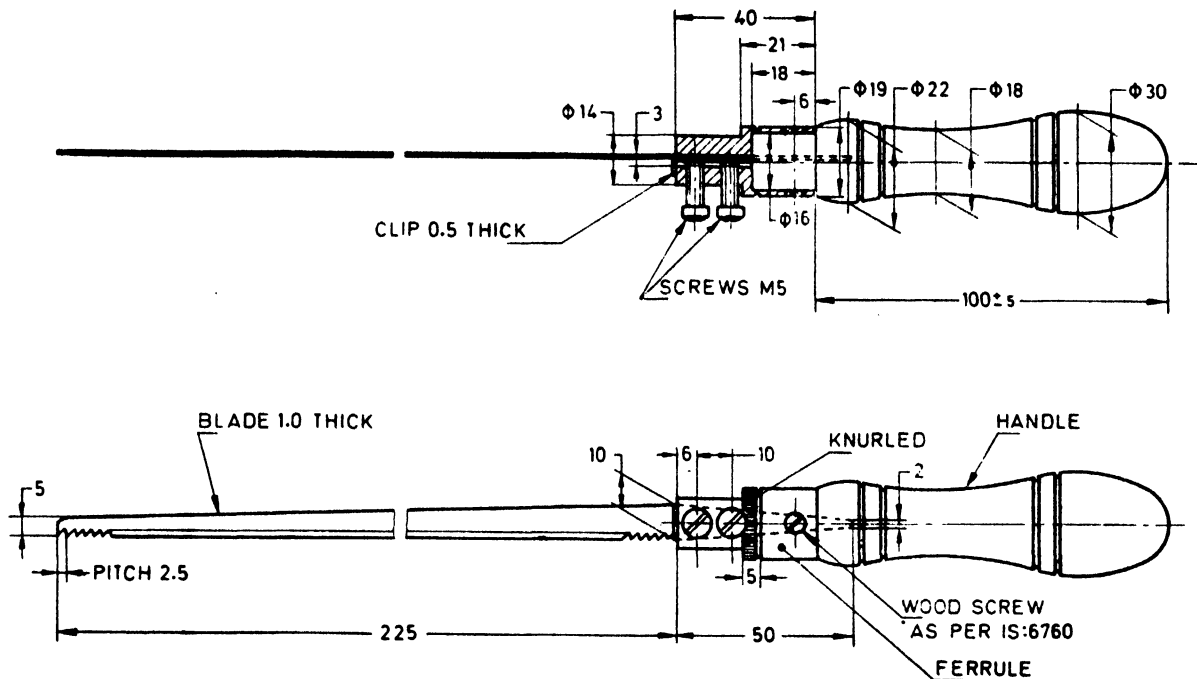
Indian Standard

SPECIFICATION FOR PAD SAW

1. Scope — Specifies the requirements of pad saw of 225 mm size used for fret cutting of wood for making patterns.

2. Dimensions

2.1 The dimensions of pad saw shall be as shown in Fig. 1.



All dimensions in millimetres.
FIG. 1 DIMENSIONS FOR PAD SAW

2.2 Tolerances on untoleranced dimensions shall be in accordance with extra coarse class of IS : 2102 (Part 1)-1980 'General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions (second revision)'.

3. Material — The components of pad saw shall be manufactured from the following:

Component	Material
Blade	Carbon Steel conforming to designation T-90 of Schedule VI of IS : 1570-1961 'Schedule for wrought steels for general engineering purposes'
Handle	Timber conforming to class 5 of IS : 620-1975 'General requirements for wooden tool handles (third revision)'
Ferrule	Brass conforming to IS : 410-1977 'Cold rolled brass sheet, strip and foil (third revision)'
Clip	Mild steel sheet conforming to IS : 1079-1973 'Hot-rolled carbon steel sheet and strip (third revision)'

4. Manufacture

4.1 The blade, soundly forged pressed or rolled, shall be evenly hardened and tempered throughout. The teeth shall be accurately cut and properly staggered towards the tip.

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IS : 10826 - 1984

4.2 The handle shall be neatly formed as shown in Fig. 1. This shall be thoroughly soaked in hot linseed oil for one hour and allowed to drain. It shall be further wiped and cleaned with a dry piece of cloth.

4.3 The ferrule, machined to the shape, shall be tight fit at the handle and further screwed with wood screws as shown in Fig. 1.

5. Workmanship and Finish

5.1 The blade and other metallic components shall be free from cracks, seams, scales, burrs and all other surface defects, and shall be finished smooth and bright all over.

5.2 Teeth of the blade shall be full and properly sharpened/ground, ready for immediate use.

5.3 The handle shall be smoothly finished all over and shall be given suitable varnish coating.

6. **Hardness** — Blade shall have hardness between 430 to 550 HV (\approx 45 to 52 HRC).

7. Marking

7.1 Each saw shall be legibly and indelibly marked/stamped with the size manufacturer's name, initials or recognised trade-mark, and the year of manufacture.

7.2 *ISI Certification Marking* — Details available with the Indian Standards Institution.

8. Sampling

8.1 In order to ascertain the conformity of lot, the procedure for sampling inspection as given in IS : 2500 (Part 1)-1973 'Sampling inspection tables : Part 1 Inspection by attributes and by count of defects (*first revision*)' shall be followed. The inspection level and AQL for various characteristics shall be according to 8.2 and 8.3.

8.2 For dimensions as well as workmanship and finish, a single sampling plan with inspection level IV and AQL of 4 percent given in Table 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

8.3 For hardness, a single sampling plan with inspection level IV and AQL of 1.5 percent given in Table 1 and 2 of IS : 2500 (Part 1)-1973 shall be followed.

9. **Packaging** — Preservation, packing and marking of the packages shall be in accordance with the best practices prevalent in the industry or as agreed between the manufacturer and the purchaser.

EXPLANATORY NOTE

The pad saws are used for fret cutting of wood while making patterns in the pattern shops.

While preparing this specification, considerable assistance has been derived from the Joint Services Specification JSS 5110-31, 'Saws pad, 225 mm,' issued by Ministry of Defence, Government of India.

AMENDMENT NO. 1 JUNE 1996
TO
IS 10826 : 1984 SPECIFICATION FOR PAD SAW

(Page 1, clause 2.2, line 2) — Substitute 'IS 2102 (Part 1) : 1993 General tolerances : Part 1 Tolerances for linear and angular dimensions without individual tolerance indications (*third revision*)' for 'IS : 2102 (Part 1) - 1980 General tolerances for dimensions and form and position : Part 1 General tolerances for linear and angular dimensions (*second revision*)'.

(Page 1, clause 3, line 4, under heading 'Material') — Substitute 'IS 620 : 1985 Wooden tool handles — General requirements (*fourth revision*)' for 'IS : 620 - 1975 General requirements for wooden tool handles (*third revision*)'.

(Page 1, clause 3, line 8, under heading 'Material') — Substitute 'IS 1079 : 1994 Hot rolled carbon steel sheets and strips (*fifth revision*)' for 'IS : 1079 - 1973 Hot rolled carbon steel sheet and strip (*third revision*)'.

(Page 2, clause 8.1, line 2) — Substitute 'IS 2500 (Part 1) : 1992 Sampling inspection procedures: Part 1 Attribute sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection (*second revision*)' for 'IS : 2500 (Part 1) - 1973 Sampling inspection tables : Part 1 Inspection by attributes and by count of defects (*first revision*)'.

(Page 2, clauses 8.2 and 8.3, line 2) — Substitute 'Tables I and II-A of IS 2500 (Part 1) : 1992' for 'Table 1 and 2 of IS : 2500 (Part 1) - 1973'.

(PE 07)